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THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS

Documentary as indicated. (Information specifically requested.)

RECENTLY PUBLISHED RESEARCH OF THE STALLBURAD MEDICAL INSTITUTE, USER

"Studies on the Influence of Active Reaction Rodia on the Action of Marcotics," N. Ya. Lebedeva, Stallingrad Med Inst

"Farmakol i Toksikol" Vol 9, No 6, 1945. pp 10-12

In search of causes for intencification by acidity, and weakening by alkalinity, effects of 8 narcolics ware tested on isolated frog heart, perfused with Ringer solution buffered with MaRCO3 to 3 pH levels.

Tests reveal two groups of narcotics: CHCl3, nercolan,

Et\_0, trional, and urethan showed no sensitivity to ph. Barbital, phembarbital, and agrical ware quite constitue to pH, reaching maximum activity on the acid side. Sensitivity to pH, shown by barbiturates but not by other narcotics, is attributed to keto-enol tautomerics. These bests confirm soundness of alkali therapy in barbiturate poisoning.

"Some Reactions of Isolated Frog Liver to Perfusion with Hypo- and Hypertonic Solutions," N. V. Golyakhotskiy, H. E. Earas, A. A. Strel'tsova, Stalingrad Mcd Inst

"Fermakel i Tcksihol" Vol 9, No 5, 1946, pp 3-5

Several Ringer solutions with fixed concentrations of Raol, Ecl, and Cacl, were tested, usually without adding glacose. The freg livers increased up to 80% in weight with hypotonic solution (I) and lost up to 40% with hypertonic solution (II). Osmoti: effects were promine

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Weak hypotonicity brings out protein in the perfusate; this disappears, but reappears if isotonic Ringer solution is used for a time and followed by I. Strong hypotonicity brings out protein, which disappears only slowly; rate of reappearance depends on concentration of subsequent I and its deviation from isotonicity. Perfusions with small successive increments of hypotonicity can decrease osmotic pressure as much as 90% without bringing out protein in the perfusate.

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